

HP StorageWorks Command View XP
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1.0 OVERVIEW
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HP StorageWorks Command View XP is a Web-based storage management platform that monitors and configures the HP StorageWorks XP Disk Array family of products.

HP StorageWorks Path Connectivity XP is a component included with Command View. You can access Command View from remote locations using the Internet and a Web browser.

New features and defect fixes are summarized in sections 2.0 and 3.0. Section 4.0 discusses known issues and section 5.0 provides an appendix for miscellaneous information not covered in the previous sections.

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2.0 NEW FEATURES
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This version of Command View provides support for new firmware features, product enhancements, and defect fixes for the XP disk arrays.

For the XP128/XP1024, the following new features are supported:

- Web GUI enhancements to support the XP Flex Copy feature. This feature is documented in Chapter 23, Flex Copy, of the HP StorageWorks Command View XP Users Guide, and it appears in the LU Operation tab in the Command View GUI. Requires firmware version 21.10.02 or later.
- Web GUI enhancements to support the XP iSCSI feature. This feature is documented in Chapter 11, LUN Management for the XP128/XP1024, of the HP StorageWorks Command View XP Users Guide, and it appears under the LUN and Volume Mgmt tab in the Command View GUI. Requires firmware version 21.10.02 or later.

- Web GUI enhancements to support additions to the LUN Security Extension feature. This feature is documented in Chapter 14, LUN Security Extension for XP128/1024, of the HP StorageWorks Command View XP Users Guide, and it appears under the LUN and Volume Mgt tab in the Command View GUI.
- The SMI-S component included with Command View 1.8B has been upgraded from version 1.03 to version 1.03.01. SMI-S 1.03.01 has been certified in the SNIA Conformance Testing Program. Please refer to the details in the SMI-S XP release notes on the Command View CD-ROM.
- Enhancement to the CLI "list array_config" command to display the raw capacity of the array as one of its output parameters.

Unless otherwise noted in this document, all new features are described in the appropriate installation and user guides.

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3.0 DEFECT FIXES

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3.1 New Defect Fix for Command View

This version of Command View fixes three defects by providing the following solutions:

- Command View now correctly displays the CA and CA extension features when the user clicks on the Uninstall or Install button in the License Key Management (Install) screen.
- Command View no longer displays invalid data for mainframe volumes for XP512/XP48 disk arrays.
- Command View CLI and GUI status pages now display LDEVs for CU IDs greater than 8.

3.2 New Defect Fixes for Path Connectivity

This version of Path Connectivity fixes two defects by providing the following solutions:

- Command View no longer displays a blank page when the user clicks on the Path Connectivity tab in certain conditions .
- The Path Connectivity host agent on the Solaris platform no longer causes certain SCSI warnings to appear in certain system log files.
- The Connectivity Health screen previously may not have displayed all paths or may have displayed fabric connections as point-to-point with certain cascaded switch configurations and switch models. This defect has been corrected in Command View 1.8B.

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4.0 KNOWN ISSUES

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The issues addressed in this section are known to exist for Command View and Path Connectivity.

4.1 General limitations

The following are not supported:

- No support for BC/CA configuration on the XP48/XP256/XP512
- No host agent, CLI, API, or online help support for mainframe systems
- No mainframe support on the XP48/XP256/XP512
- No support for Netscape browsers on Microsoft Windows platforms

Issues concerning Command View

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4.2 Viewing online help on HP-UX

The Command View online help may not load properly on HP-UX operating systems using Netscape. If this occurs, reload the frame by right-clicking the grayed frame on the left hand side and clicking Reload Frame.

4.3 The list of managed XP disk arrays may be lost when upgrading software

If you are upgrading from Command View XP 1.51 or earlier, Command View will lose the list of managed XP disk arrays during the upgrade process. To minimize impact of this constraint, record network related information about the XP disk arrays managed by Command View prior to upgrading, and then manually add the XP disk arrays afterwards.

4.4 Mozilla 1.2.1.01 on HP-UX 11.23 limitation when adding XP disk arrays in the Device Administration screen

If you are using Mozilla 1.2.1.01 on HP-UX 11.23 and you try to add an XP disk array using the Device Administration screen by entering the IP address, data does not populate the form and field labels do not display properly on some pages.

To work around this problem, add the XP disk array by using any of the other supported operating systems and browsers, or by using the "create device" CLI command. After adding the XP disk array through one of the supported methods, you can use Mozilla 1.2.1.01 on HP-UX 11.23 to complete any other configuration on an XP disk array.

4.5 Multiple LAN card limitation

If the Command View management station has two network cards installed, one card on an isolated LAN and another on a corporate LAN, the client may have trouble connecting to the management station if the primary card mapped to the local host is on a different LAN than the client.

To solve this issue, configure the first LAN card to communicate with the hosts and Command View API clients on the SAN. To set the LAN card as the first network card, modify the bindings order of the network adapters to bind that network card first. This procedure is explained in the installation guide.

4.6 The CV CLI "create host_group" command removes spaces in host group name input parameters

If the "create host_group" command removes spaces in host group name input parameters, use the host group names with no spaces in the CLI.

4.7 Command View 1.8A (or later) and Performance Advisor 1.7 do not use the same JRE version

Performance Advisor 1.7 uses an older JRE version than the JRE version supported by Command View 1.8A (or later). Using an older JRE than the one supported for the particular Command View release may cause web client display problems. To solve this, obtain Performance Advisor 1.7-2 or later and follow the upgrade instructions provided with the product.

4.8 Installing multiple JRE versions may cause Command View 1.8B applets to crash Internet Explorer

In Windows, installing an older or unsupported JRE after installing the supported JRE may cause the Command View web client running on that system to crash. First, verify the order you installed the JRE versions and if necessary, uninstall and re-install JRE 1.4.2. Complete the following:

1. Check the timestamps of the JRE installation folders. The JRE 1.3.1 installation folder path is <JRE-install-directory>/JavaSoft/JRE/1.3.x. The JRE 1.4.2 installation folder path is <JRE-install-directory>/Java/j2re1.4.2. If the JRE 1.3.x installation folder has a more recent timestamp than the JRE 1.4.2 installation folder, continue to the next step.
2. If you are solving the problem on the management station, stop all Command View or Performance Advisor services.
3. Uninstall JRE 1.4.2.

4. Download and install JRE 1.4.2 from the Sun Web site.
5. If you are solving the problem on the management station, restart all Command View or Performance Advisor services before using Command View or Performance Advisor.

4.9 OPEN-V CV CLI Support

At this time, OPEN-V is not fully supported by the CLI, but is supported by the Command View GUI. The CLI will display OPEN-V volumes, but will not create OPEN-V volumes.

4.10 SSL Support for XP128/XP1024 GUI

Starting with firmware version 21.07.04, SSL is supported on the Web server on the SVP, but when used with Command View XP, GUI cannot successfully provide access to the XP disk array. Therefore, SSL is not supported at this time in this configuration.

4.11 Auto LUN support for the XP48/XP512

For active management of Auto LUN on the XP48/XP512, HP recommends using Remote Control XP instead of the Command View XP GUI because Remote Control provides significantly quicker performance.

4.12 XP256 disk array limitations

Due to performance limitations, we do not recommend use of HP StorageWorks Command View XP to actively manage XP256 disk arrays, but only to monitor their usage.

The Remote Control software accompanying the purchase of HP Surestore Command View XP for the XP256 array may be used successfully to actively configure the XP256 disk array.

Remote Control XP is available as B9357AD, Command View Remote Control LTU U/G.

4.13 Flex Copy display limitation

LUNs and ports that are part of Flex Copy pairs will not be displayed under the CLI, APIs, or in the GUI Status Pages.

4.14 Documented supported emulation types

As indicated on page 302 of the HP StorageWorks Command View XP User Guide, Command View XP does not support OPEN-K

and OPEN-M emulation types for the XP128 and XP1024 disk arrays. Ignore references to these emulation types on pages 351, 419, 478, 540, and 573 of the Command View XP User Guide.

4.15 Installing and uninstalling license keys

If you are unable to install or uninstall license keys for the XP48 and XP512 disk arrays using the Licensing Management feature, contact your HP support representative for assistance with installing the license key directly on the array.

4.16 FlexCopy online help unavailable

If you click the Help button when the FlexCopy tab is displayed, the context-sensitive help page is not displayed. As a workaround, click the CV User Guide link in the Help window and navigate to Chapter 22, Flex Copy for the XP128/XP1024.

Issues concerning Path Connectivity

4.17 Multiple Path Connectivity instances in a SAN

When communicating to an XP48/XP256/XP512, if you have multiple Command View management stations configured in your SAN environment to manage the same SAN resources, Path Connectivity's "Data Collection Service" may conflict each other. For instance, the Path Connectivity Diagnosis function either hangs or takes a very long time to complete.

To work around this issue, disable the Path Connectivity "Data Collection Service" on one of the management stations. To do this, go to the Windows Services, right-click "HpssDataCollectorService," and click Stop.

4.18 Not preserving original data in new Path Connectivity database

If you are upgrading from Command View XP 1.40 or earlier, the installation process will not preserve the user-entered database data. The database content will be lost during the upgrade process.

4.19 The Connectivity Health Screen will not show physical path information for a Solaris host with Sun's Traffic Manager (MPxIO) enabled

The Connectivity Health screen provides a table of the paths and path connectivity health statuses between hosts and XP disk arrays. However, for a Solaris host with Sun's

Traffic Manager (MPxIO) enabled, the Connectivity Health screen will show a pseudo HBA WWN and a logical path between this pseudo HBA port to the XP disk array.

4.20 A "No such object in table" error may occur while accessing the Administration screens in Path Connectivity

A "No such object in table" error may occur while accessing the Administration screens in Path Connectivity. This error could occur when attempting to manually add a host on the Host Discovery - Host Management screen or other Path Connectivity Administration feature combined with a subsequent network delay or timeout during the requested operation.

To resolve this issue, you need to restart the HPSSE2ETomcat service.

You can choose to either restart the Command View services through the Start menu:

Note: The following procedure stops and restarts ALL Command View services and will affect processes that are currently making changes to disk array configurations.

- Click Start > Programs > HP StorageWorks Command View XP > Restart Services.

OR

Restart the HPSSE2ETomcat service remotely:

1. Become a member of the <CVXP management server>\Administrators group.
2. From the Control Panel, click Administrator Tools > Computer Management > Action > Connect to another computer, and then connect to <CVXP management server>.
3. From the Control Panel, click Administrator Tools > Computer Management > Services and Applications > Services.
4. Stop and Start the Hpsse2ETomcat service.

Or use the REXEC service:

- rexec <CVXP management server> [-l username] [-n] "NET STOP Hpsse2ETomcat"
- rexec <CVXP management server> [-l username] [-n] "NET START Hpsse2ETomcat"

4.21 A Command View management station on Windows NT may fail to deploy host agents remotely

If the only management station is on a Windows NT machine, we recommend that you deploy the host agent locally. Refer

to the installation guide for further details on installing the host agent locally.

4.22 Switch requirements

The Path Connectivity module does NOT support the Cisco family of switches.

The Path Connectivity module does support the following switches:

- Brocade 2400
- Brocade 2800
- HP Surestore FC switch 6164 (32/62 ISL Ports)
- HP Surestore FC 1Gb/2Gb Switch 16B
- HP Surestore FC 1Gb/2Gb Switch 8B
- HP Surestore FC 1Gb/2Gb Entry Switch 8B
- HP StorageWorks SAN Switch 2/8 EL, 2/8 power pack
- HP StorageWorks SAN Switch 2/16, 2/16 power pack, 2/16-EL
- FC SAN Switch 2/8, 2/16 (3200/3800)
- HP StorageWorks SAN Switch 2/32, 2/32 power pack
- HP StorageWorks Core Switch 2/64, 2/64 power pack
- HP StorageWorks SAN switch 2/8V, 2/8V power pack, 2/8V GSA, 2/8V GSA power pack
- HP StorageWorks SAN switch 2/16V, 2/16V GSA
- HP StorageWorks SAN Switch 2/16N FF, 2/16N power pack, 2/16N FF GSA, 2/16N FF GSA power pack
- HP StorageWorks SAN Director 2/128, 2/128 power pack
- HP Surestore Director FC-64
- HP StorageWorks Director 2/64, 2/140
- HP StorageWorks Edge Switch 2/16, 2/24, 2/32, 2/64
- HP StorageWorks Edge Switch 2/12
- McDATA ES-3016, ES-3032
- McDATA ED-5000

4.23 Path Connectivity Host Agent installation

If your hosts have host agent with version of CV 1.7B or earlier, you will need to update your host agent version to CV 1.8A or later in order to use Path Connectivity. If your hosts have CV 1.8 host agent installed, you do NOT need to update your host agent. For Windows Server 2003 (32-bit), you must perform a fresh local installation of the corresponding host agent.

The update and install functions using the remote deployment tool are not supported for host agents on Windows. For host agents installed using Command View version before CV 1.6, please uninstall the old host agent locally and then install the new host agent. For host agents installed using CV 1.6 and later, you can locally install the host agent by invoking the install script in the local install package without uninstalling first.

For detailed instructions regarding the local installation

and uninstallation procedures, please refer to the HP StorageWorks Command View XP Installation Guide.

4.24 Connectivity Health screen hyperlinks may not work

In the Connectivity Health screen under Path Connectivity, some hypertext links in the diagnostics result report frame, may not take you back to the main Connectivity Health screen when clicked. You can click the Connectivity Health button near the top of the frame to return to the main Connectivity Health screen.

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5.0 APPENDIX

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The information contained within this appendix is information pertinent to Command View not covered elsewhere in the documentation.

5.1 Trap Distributor Files

In addition to \HPSS\TrapDistributor\conf\RefCodeToErrorMsg.conf, there are four Trap files in the \hpss\dm\tomcat\webapps\hpstmgmt\web-inf\cvapi\config directory:

- XP128RSimFile.txt: Traps for XP128/1024
- XP256RSimFile.txt: Traps for XP256
- XP512RSimFile.txt: Traps for XP512
- XP48RSimFile.txt: Traps for XP48

Trap Distributor refers to these files first to find the R-SIM trap. If Trap Distributor does not find there, it refers to \HPSS\TrapDistributor\conf\RefCodeToErrorMsg.conf.

5.2 Documentation provided on the Command View CD-ROM

- HP StorageWorks Command View XP Installation Guide
- HP StorageWorks Command View XP for XP Disk Arrays User Guide
- HP StorageWorks Command View XP Command Line Interface (CLI) Reference Guide
- HP StorageWorks Command View XP Path Connectivity User Guide
- HP StorageWorks Command View XP Path Connectivity Command Line Interface (CLI) Reference Guide
- HP StorageWorks Command View XP and Path Connectivity online help
- HP StorageWorks SMI-S XP Release Notes
- Apache Web Server SSL Configuration for Command View Applications whitepaper